SiQuENC: Angular impulse-momentum theorem (calc.-based)

Neatly and graphically represent situation(s)

Carefully read the problem three times.
For each situation, draw object(s) and relevant aspects of environment.
use dashed bubble(s) to indicate object(s) in system.
indicate axis of rotation and positive sense of rotation.
Identify requested unknowns.

Illustration of **initial** situation	Illustration of **final** situation

Graphically represent quantities and their relationships

Bar chart Initial ang. momenta & supplied ang. impulse	**Bar chart** Final angular momenta

Identify relevant allowed starting point (in)equation(s)

$$\Sigma L_i + \int_{t=t_i}^{t=t_f} \left(\sum_{\text{EXT}\to\text{SYS}} \tau \right) \mathrm{d}t = \Sigma L_f$$

	Object	$L = I\omega$ (or $L_{\text{PARTICLE}} = \pm mvr_\perp$)
1		
2		
3	Rotational impulse	$\left(\sum_{\text{EXT}} \tau\right) \Delta t =$
Σ		

	Object	$L = I\omega$ (or $L_{\text{PARTICLE}} = \pm mvr_\perp$)
1		
2		
3		
Σ		

(Continue on separate sheet).

Use numbered steps to show REASoNing

Communicate